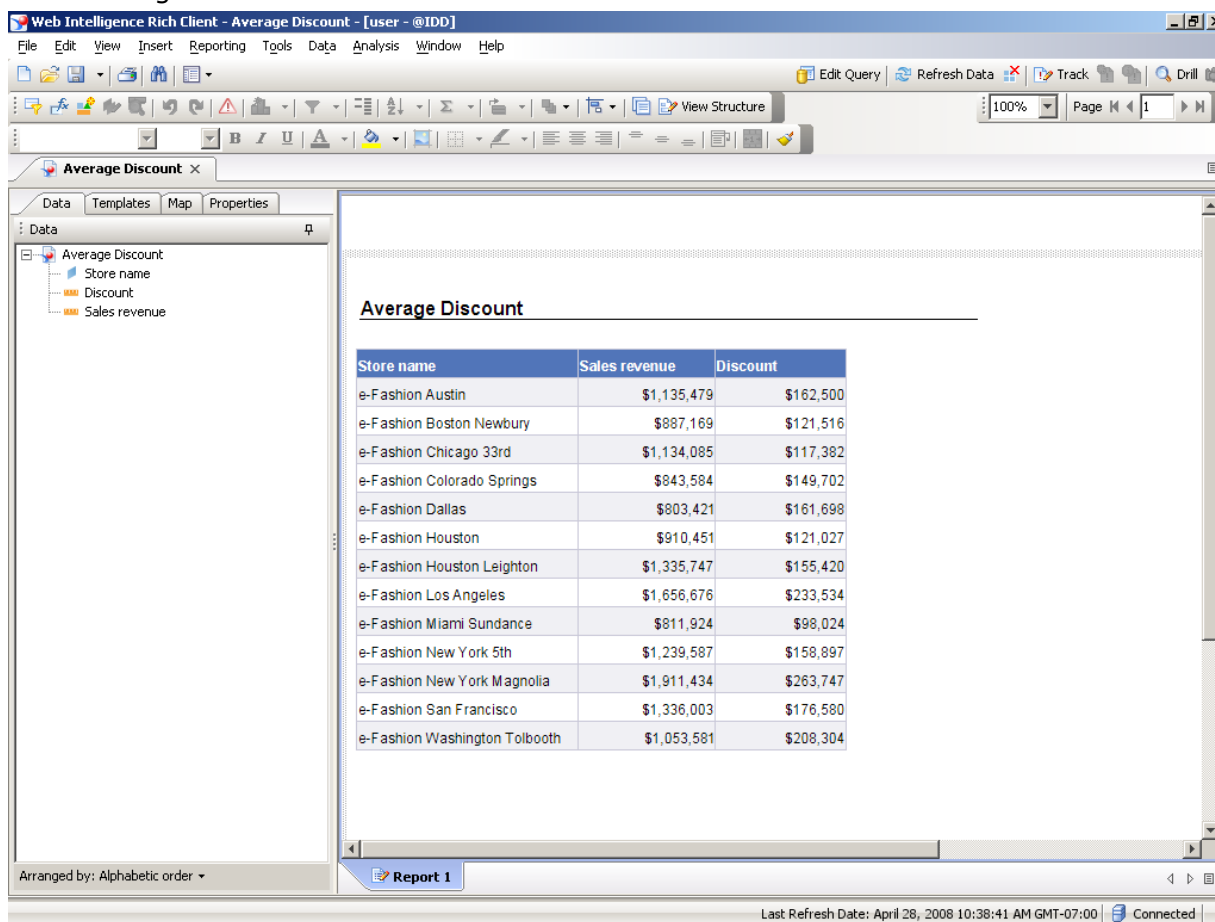


Creating Custom Calculations and Variables

Procedure

1. Start the transaction using the menu path or transaction code.

Web Intelligence Rich Client



The screenshot shows the Web Intelligence Rich Client interface. The title bar reads 'Web Intelligence Rich Client - Average Discount - [user - @IDD]'. The menu bar includes File, Edit, View, Insert, Reporting, Tools, Data, Analysis, Window, and Help. The toolbar contains icons for Edit Query, Refresh Data, Track, and Drill. The main window displays a report titled 'Average Discount' with a table of data. The table has three columns: Store name, Sales revenue, and Discount. The data is sorted by Store name in ascending order. The status bar at the bottom indicates 'Last Refresh Date: April 26, 2008 10:38:41 AM GMT-07:00' and 'Connected'.

| Store name | Sales revenue | Discount |
|-------------------------------|---------------|-----------|
| e-Fashion Austin | \$1,135,479 | \$162,500 |
| e-Fashion Boston Newbury | \$887,169 | \$121,516 |
| e-Fashion Chicago 33rd | \$1,134,085 | \$117,382 |
| e-Fashion Colorado Springs | \$843,584 | \$149,702 |
| e-Fashion Dallas | \$803,421 | \$161,698 |
| e-Fashion Houston | \$910,451 | \$121,027 |
| e-Fashion Houston Leighton | \$1,335,747 | \$155,420 |
| e-Fashion Los Angeles | \$1,656,676 | \$233,534 |
| e-Fashion Miami Sundance | \$811,924 | \$98,024 |
| e-Fashion New York 5th | \$1,239,587 | \$158,897 |
| e-Fashion New York Magnolia | \$1,911,434 | \$263,747 |
| e-Fashion San Francisco | \$1,336,003 | \$176,580 |
| e-Fashion Washington Tolbooth | \$1,053,581 | \$208,304 |

2. Click the **Discount** column.

You have been asked to compare the discounts offered by different stores.

Add a new column to the right of the Discount column.

Use the Formula Editor to give it the column header Average Discount.

Create a formula in this column to calculate the average discount percent (Discount /

Sales revenue) and then save the formula as a variable named Average Discount. Finally, format the Average Discount as a percentage using the Number format on the Properties tab.

3. Click **Insert column to the right** .
4. Click **Show/Hide Formula Toolbar** .

Use the Formula Editor to give it the column header Average Discount.

5. Click the **Formula** textbox.
6. As required, complete/review the following fields:

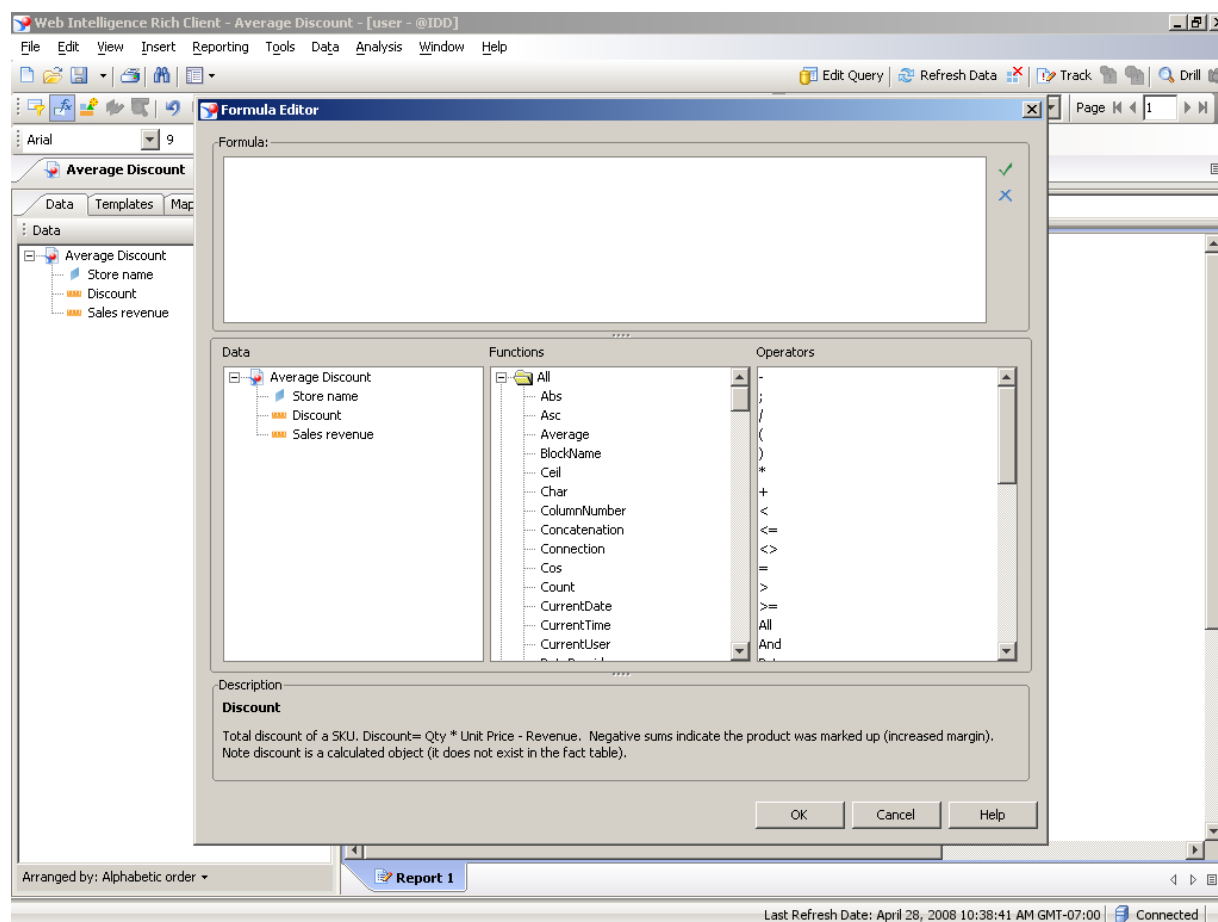
| Field | R/O/C | Description |
|-------|-------|-------------------------------------|
| | R | Example: Average Discount |

7. Click in the **Average Discount** column.
8. Click **Formula Editor** .

Create a formula to calculate the average discount percent (Discount / Sales revenue).

Creating Custom Calculations and Variables

Formula Editor



9. Double-click **Discount**.
10. As required, complete/review the following fields:

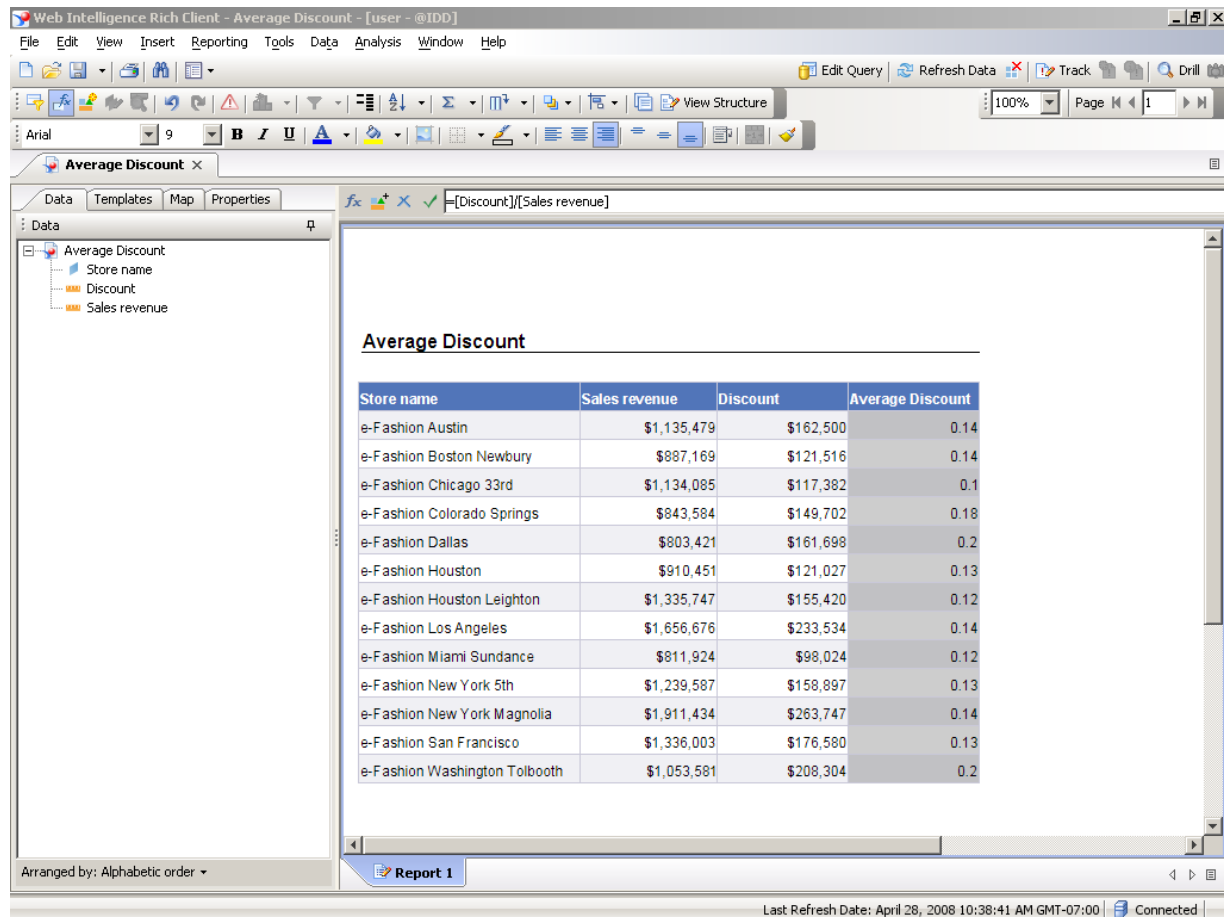
| Field | R/O/C | Description |
|-------|-------|----------------------|
| | R | Example: / |

11. Double-click **Sales revenue**.

Creating Custom Calculations and Variables

12. Click **OK**.

Web Intelligence Rich Client



The screenshot shows the Web Intelligence Rich Client interface. The main window displays a report titled "Average Discount". The report is structured as a table with four columns: "Store name", "Sales revenue", "Discount", and "Average Discount". The data is sorted by "Average Discount" in ascending order. The formula bar at the top of the report area shows the calculation $\frac{[\text{Discount}]}{[\text{Sales revenue}]}$. The left pane shows the data source structure with "Average Discount" as the main object, and "Store name", "Discount", and "Sales revenue" as its dimensions. The bottom status bar indicates the last refresh date as April 26, 2008 10:38:41 AM GMT-07:00 and the connection status as "Connected".

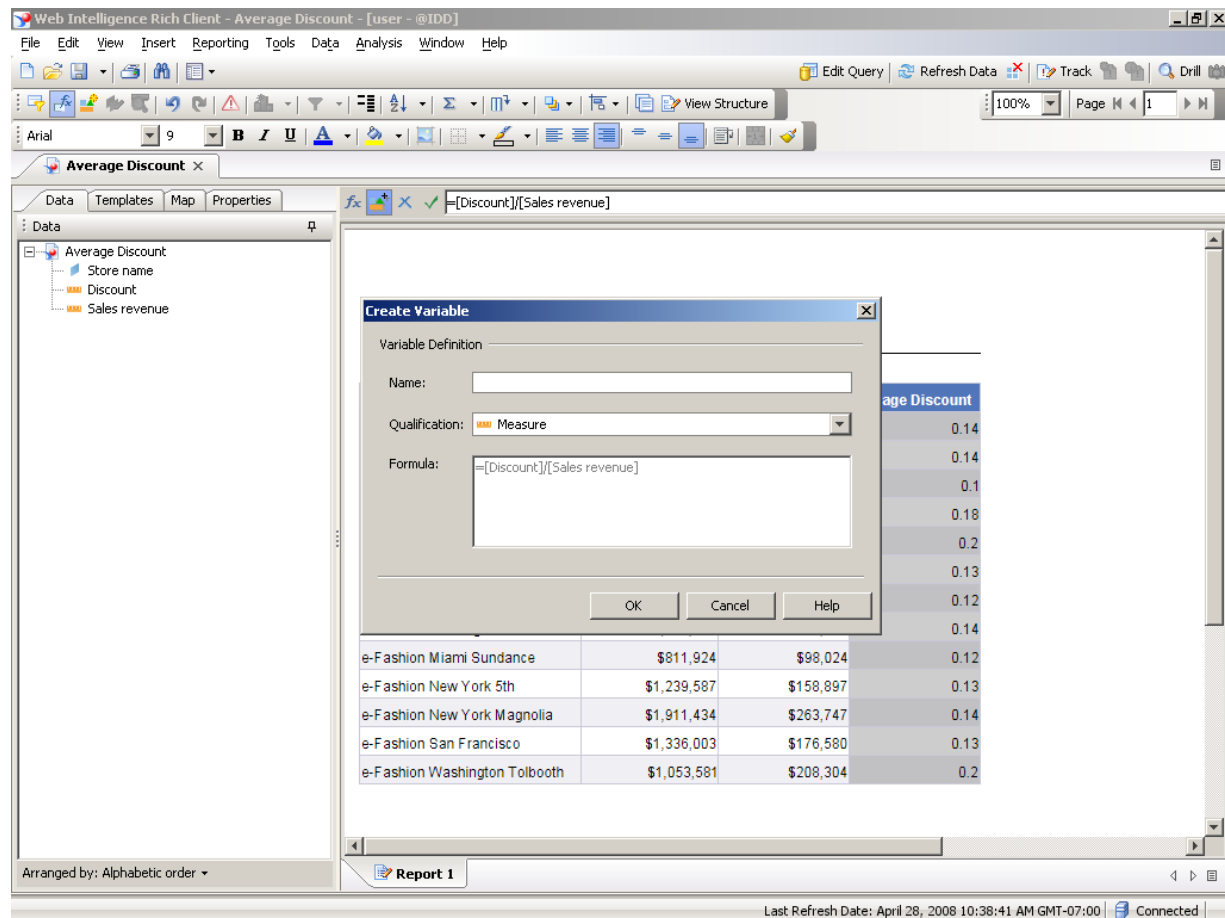
| Store name | Sales revenue | Discount | Average Discount |
|-------------------------------|---------------|-----------|------------------|
| e-Fashion Austin | \$1,135,479 | \$162,500 | 0.14 |
| e-Fashion Boston Newbury | \$887,169 | \$121,516 | 0.14 |
| e-Fashion Chicago 33rd | \$1,134,085 | \$117,382 | 0.1 |
| e-Fashion Colorado Springs | \$843,584 | \$149,702 | 0.18 |
| e-Fashion Dallas | \$803,421 | \$161,698 | 0.2 |
| e-Fashion Houston | \$910,451 | \$121,027 | 0.13 |
| e-Fashion Houston Leighton | \$1,335,747 | \$155,420 | 0.12 |
| e-Fashion Los Angeles | \$1,656,676 | \$233,534 | 0.14 |
| e-Fashion Miami Sundance | \$811,924 | \$98,024 | 0.12 |
| e-Fashion New York 5th | \$1,239,587 | \$158,897 | 0.13 |
| e-Fashion New York Magnolia | \$1,911,434 | \$263,747 | 0.14 |
| e-Fashion San Francisco | \$1,336,003 | \$176,580 | 0.13 |
| e-Fashion Washington Tolbooth | \$1,053,581 | \$208,304 | 0.2 |

13. Click **Create Variable** .

Save the formula $\frac{[\text{Discount}]}{[\text{Sales revenue}]}$ as a variable named Average Discount.

Creating Custom Calculations and Variables

Create Variable



The screenshot shows the 'Create Variable' dialog box in the Business Objects Web Intelligence Rich Client. The dialog is titled 'Create Variable' and has a 'Variable Definition' section. In this section, the 'Name' field is empty, the 'Qualification' is set to 'Measure', and the 'Formula' is entered as '=[Discount]/[Sales revenue]'. The dialog has 'OK', 'Cancel', and 'Help' buttons. In the background, a report titled 'Average Discount' is visible, showing a table with columns for 'Store name', 'Discount', 'Sales revenue', and 'Average Discount'. The 'Average Discount' column contains values ranging from 0.1 to 0.2. The report is arranged by 'Alphabetic order' and is labeled 'Report 1'. The status bar at the bottom indicates 'Last Refresh Date: April 28, 2008 10:38:41 AM GMT-07:00' and 'Connected'.

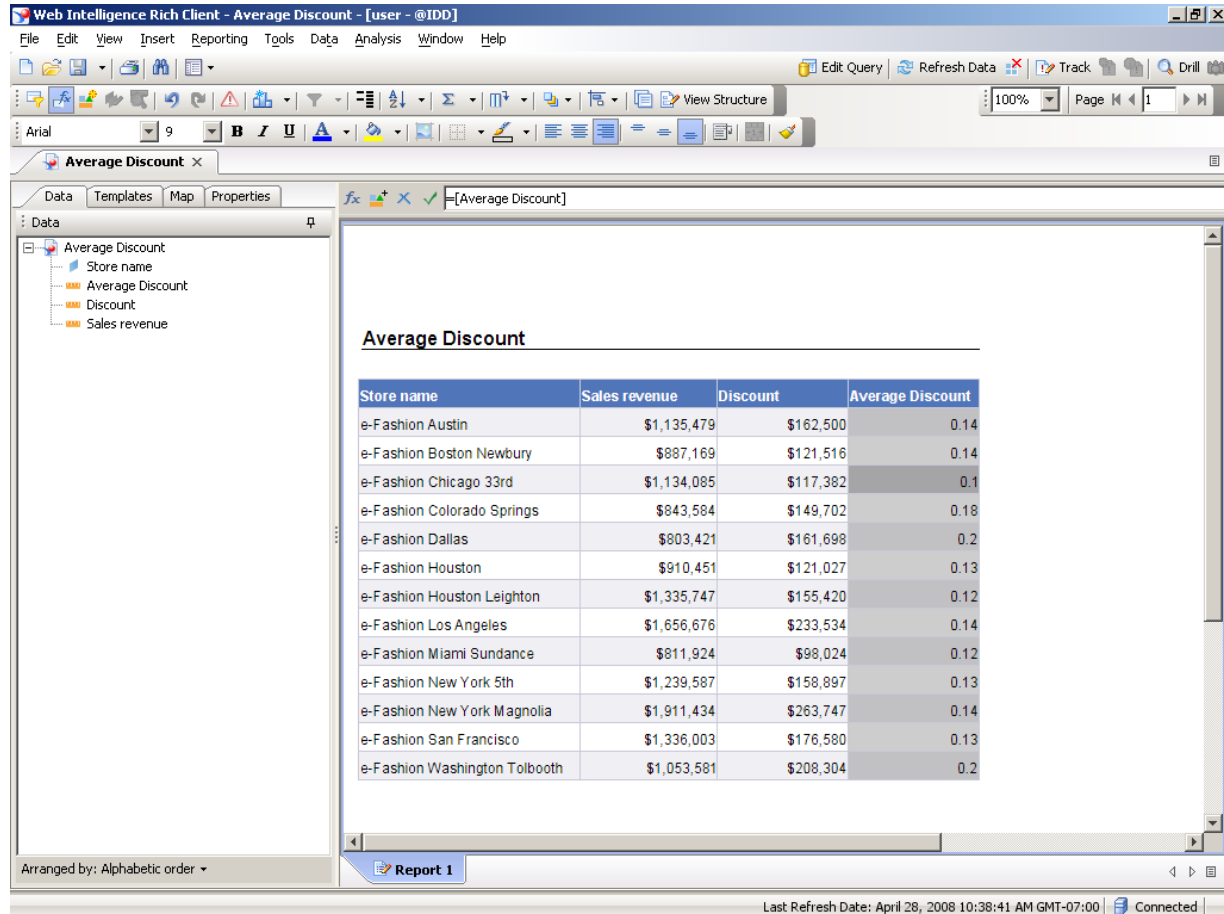
14. As required, complete/review the following fields:

| Field | R/O/C | Description |
|-------|-------|-------------------------------------|
| | R | Example: Average Discount |

15. Click **OK**.

Creating Custom Calculations and Variables

Web Intelligence Rich Client



The screenshot shows the Web Intelligence Rich Client interface. The main window displays a report titled "Average Discount". The report is structured as a table with four columns: "Store name", "Sales revenue", "Discount", and "Average Discount". The data is sorted by "Average Discount" in ascending order. The left pane shows the "Data" tab with a tree view containing "Average Discount", "Store name", "Average Discount", "Discount", and "Sales revenue". The bottom status bar indicates "Last Refresh Date: April 28, 2008 10:38:41 AM GMT-07:00" and "Connected".

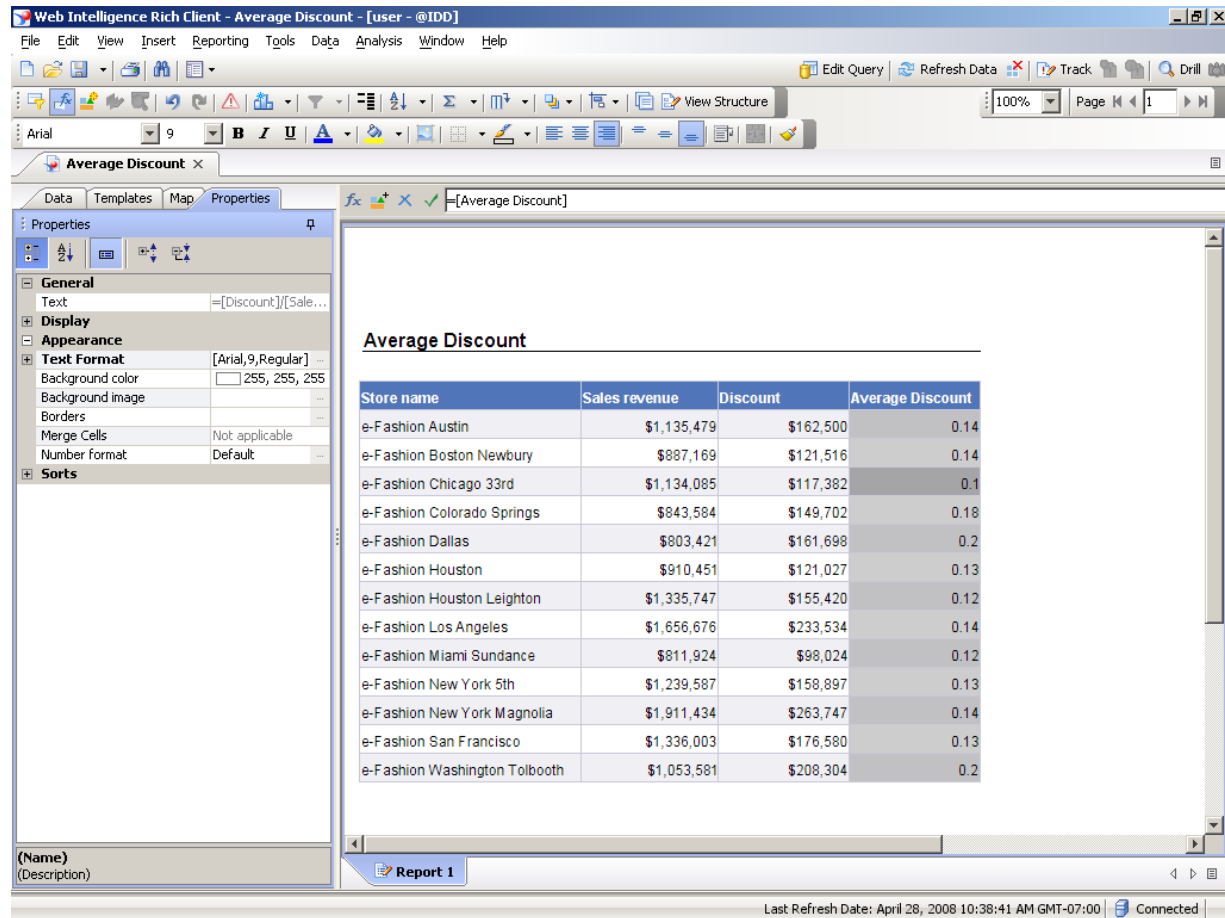
| Store name | Sales revenue | Discount | Average Discount |
|-------------------------------|---------------|-----------|------------------|
| e-Fashion Austin | \$1,135,479 | \$162,500 | 0.14 |
| e-Fashion Boston Newbury | \$887,169 | \$121,516 | 0.14 |
| e-Fashion Chicago 33rd | \$1,134,085 | \$117,382 | 0.1 |
| e-Fashion Colorado Springs | \$843,584 | \$149,702 | 0.18 |
| e-Fashion Dallas | \$803,421 | \$161,698 | 0.2 |
| e-Fashion Houston | \$910,451 | \$121,027 | 0.13 |
| e-Fashion Houston Leighton | \$1,335,747 | \$155,420 | 0.12 |
| e-Fashion Los Angeles | \$1,656,676 | \$233,534 | 0.14 |
| e-Fashion Miami Sundance | \$811,924 | \$98,024 | 0.12 |
| e-Fashion New York 5th | \$1,239,587 | \$158,897 | 0.13 |
| e-Fashion New York Magnolia | \$1,911,434 | \$263,747 | 0.14 |
| e-Fashion San Francisco | \$1,336,003 | \$176,580 | 0.13 |
| e-Fashion Washington Tolbooth | \$1,053,581 | \$208,304 | 0.2 |

- Click the **Properties** tab.

Format the Average Discount column using the percent number format. Change the Number format on the properties tab.

Creating Custom Calculations and Variables

Web Intelligence Rich Client



The screenshot shows the Web Intelligence Rich Client interface. The title bar reads "Web Intelligence Rich Client - Average Discount - [user - @IDD]". The menu bar includes File, Edit, View, Insert, Reporting, Tools, Data, Analysis, Window, and Help. The toolbar contains various icons for file operations, editing, and reporting. The Properties pane on the left shows the "Average Discount" report with the following properties:

- General**: Text = [Discount]/[Sale...]
- Display**: Text Format = [Arial, 9, Regular]
- Appearance**: Background color = 255, 255, 255; Background image = ; Borders = ; Merge Cells = Not applicable; Number format = Default
- Sorts**: (Empty)

The main area displays the "Average Discount" report. The table has the following data:

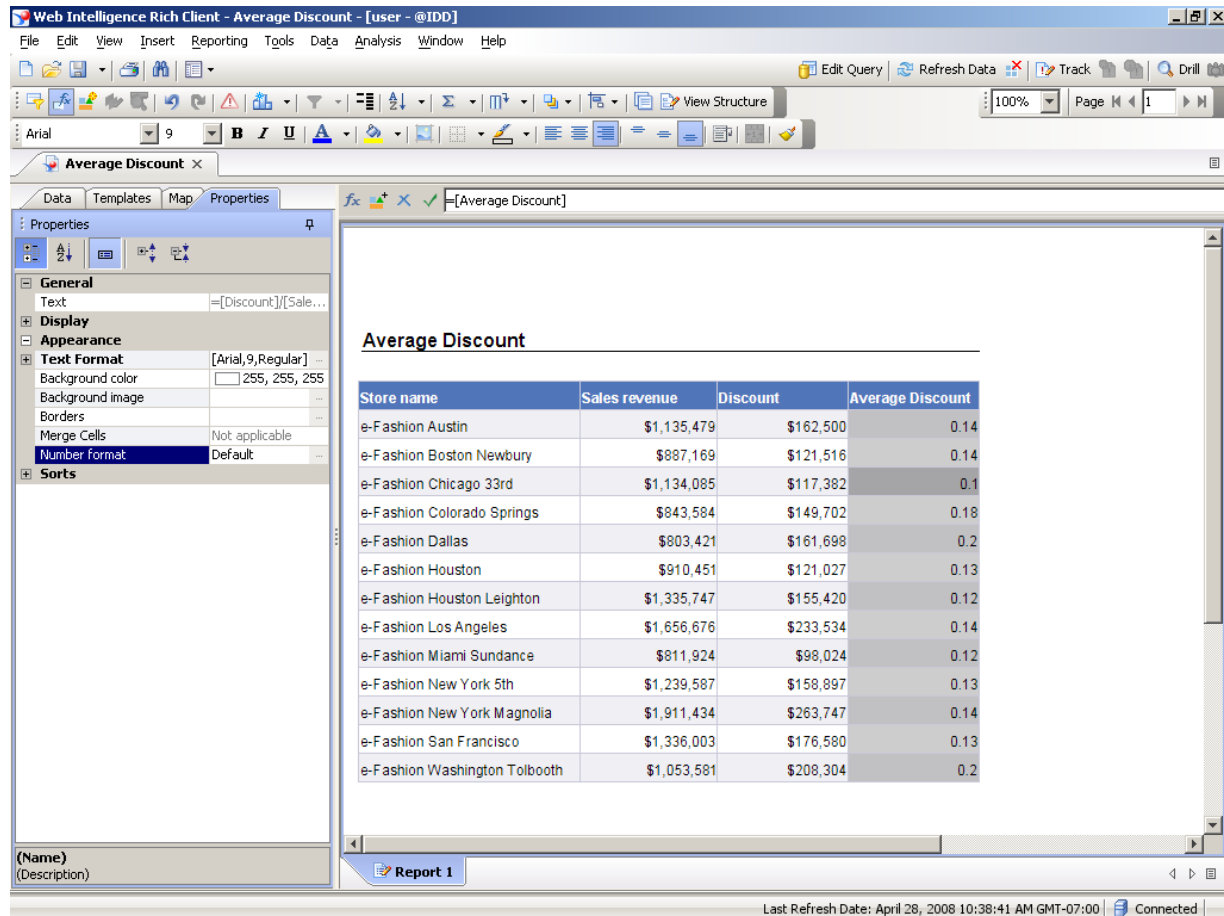
| Store name | Sales revenue | Discount | Average Discount |
|-------------------------------|---------------|-----------|------------------|
| e-Fashion Austin | \$1,135,479 | \$162,500 | 0.14 |
| e-Fashion Boston Newbury | \$887,169 | \$121,516 | 0.14 |
| e-Fashion Chicago 33rd | \$1,134,085 | \$117,382 | 0.1 |
| e-Fashion Colorado Springs | \$843,584 | \$149,702 | 0.18 |
| e-Fashion Dallas | \$803,421 | \$161,698 | 0.2 |
| e-Fashion Houston | \$910,451 | \$121,027 | 0.13 |
| e-Fashion Houston Leighton | \$1,335,747 | \$155,420 | 0.12 |
| e-Fashion Los Angeles | \$1,656,676 | \$233,534 | 0.14 |
| e-Fashion Miami Sundance | \$811,924 | \$98,024 | 0.12 |
| e-Fashion New York 5th | \$1,239,587 | \$158,897 | 0.13 |
| e-Fashion New York Magnolia | \$1,911,434 | \$263,747 | 0.14 |
| e-Fashion San Francisco | \$1,336,003 | \$176,580 | 0.13 |
| e-Fashion Washington Tolbooth | \$1,053,581 | \$208,304 | 0.2 |

The status bar at the bottom indicates "Last Refresh Date: April 28, 2008 10:38:41 AM GMT-07:00" and "Connected".

17. Click the **Number format** property.

Creating Custom Calculations and Variables

Web Intelligence Rich Client



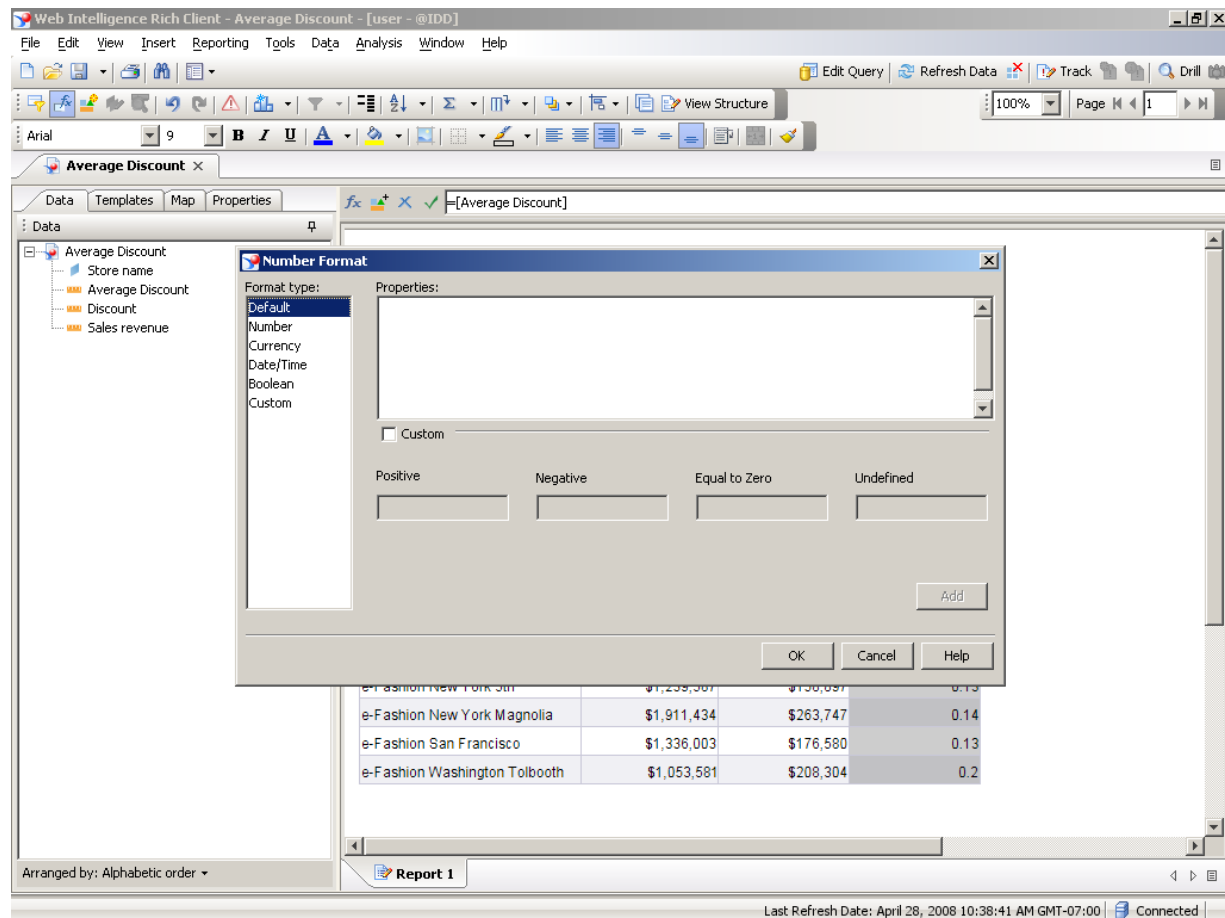
The screenshot displays the Business Objects Web Intelligence Rich Client interface. The main window shows a report titled "Average Discount" with a table of data. The table has four columns: "Store name", "Sales revenue", "Discount", and "Average Discount". The data is sorted by "Average Discount" in descending order. The left pane shows the "Properties" tab with various settings for the report, including "Text Format" set to "Arial, 9, Regular" and "Number Format" set to "Default". The bottom status bar indicates the last refresh date as April 28, 2008, 10:38:41 AM GMT-07:00 and the connection status as "Connected".

| Store name | Sales revenue | Discount | Average Discount |
|-------------------------------|---------------|-----------|------------------|
| e-Fashion Austin | \$1,135,479 | \$162,500 | 0.14 |
| e-Fashion Boston Newbury | \$887,169 | \$121,516 | 0.14 |
| e-Fashion Chicago 33rd | \$1,134,085 | \$117,382 | 0.1 |
| e-Fashion Colorado Springs | \$843,584 | \$149,702 | 0.18 |
| e-Fashion Dallas | \$803,421 | \$161,698 | 0.2 |
| e-Fashion Houston | \$910,451 | \$121,027 | 0.13 |
| e-Fashion Houston Leighton | \$1,335,747 | \$155,420 | 0.12 |
| e-Fashion Los Angeles | \$1,656,676 | \$233,534 | 0.14 |
| e-Fashion Miami Sundance | \$811,924 | \$98,024 | 0.12 |
| e-Fashion New York 5th | \$1,239,587 | \$158,897 | 0.13 |
| e-Fashion New York Magnolia | \$1,911,434 | \$263,747 | 0.14 |
| e-Fashion San Francisco | \$1,336,003 | \$176,580 | 0.13 |
| e-Fashion Washington Tolbooth | \$1,053,581 | \$208,304 | 0.2 |

18. Click the **elipses** .

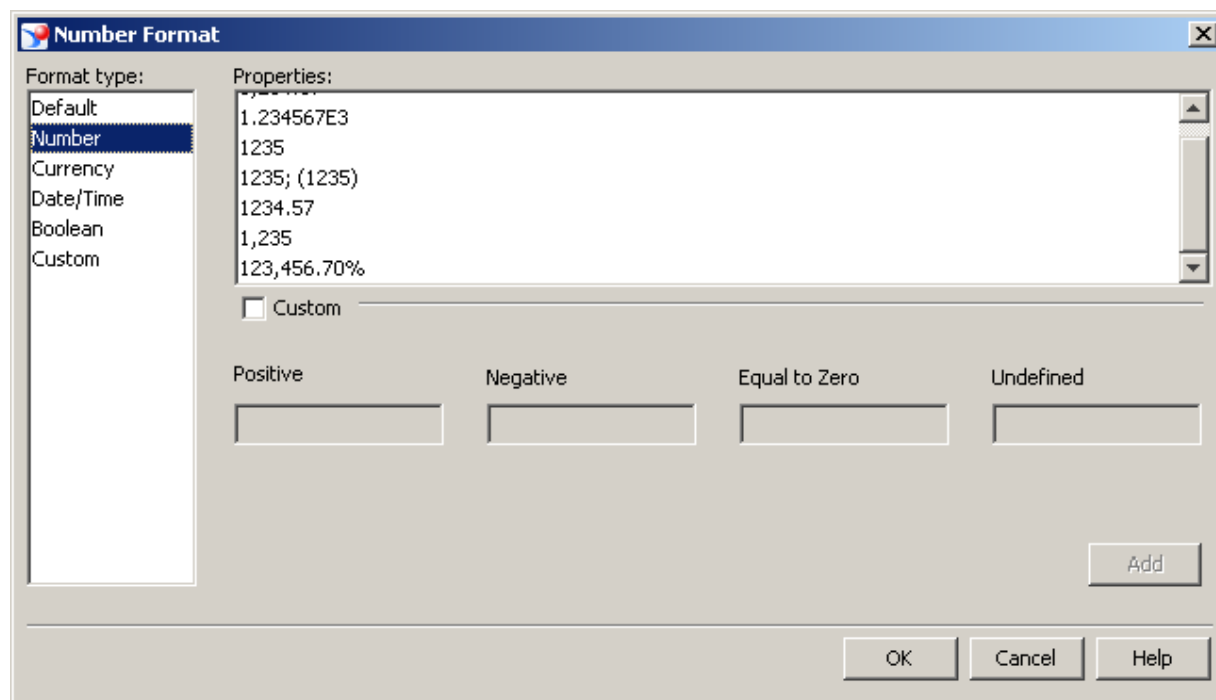
Creating Custom Calculations and Variables

Number Format



19. Click **Number**.

Number Format



20. Click **123,456.70%**.

21. Click **OK**.